

# PreFlex® Pretreatment Units Temporary Systems

PreFlex® pretreatment units from Siemens Water Technologies are modular, pre-plumbed, self-contained, skid-mounted pretreatment units used in mobile and temporary applications. PreFlex units are designed to the highest engineering standards with ASME code tanks, NEMA 4X panels and pneumatically actuated butterfly valves. They can be used in a wide variety of applications and environments, including heavy industry.

Configured in parallel or in series, these units can be combined with other Siemens Water Technologies mobile products for a fully integrated water treatment system that meets your plant's flow and quality requirements. These units may be site or trailer-installed with up to six PreFlex 54 units per trailer.

Siemens Water Technologies maintains a large inventory of PreFlex units and other mobile equipment to serve a growing number of customers, who depend upon Siemens' mobile capabilities and extensive service network for their short-term, emergency, seasonal, pilot and temporary water treatment needs.

PreFlex units are also used for various stand-alone pretreatment applications, including:

- Media filtration
- Activated carbon filtration
- Softening
- Dealkalization
- Iron and manganese removal
- TOC reduction



PreFlex 54 unit



PreFlex 84 unit

## Typical Applications

- Power plants
- Refineries
- Chemical companies
- Petrochemical
- Pulp and paper
- Steel
- Food and beverage
- Municipal
- Anywhere treated or high-purity water is needed for emergency, seasonal, short or long-term requirements

## Features

- Portable
- Skid-mounted
- High flow rate
- Industrial design

PreFlex Modules	PreFlex 54			PreFlex 84		
	ACF	54" dia. x 60" SS MMF	SOFT	ACF	84" dia. x 60" SS MMF	SOFT
Service Flow Rate (gpm)—Min./Max	40/160	40/ 120	40/240	80/380	80/300	80/500
Backwash Flow (gpm)	160	240	80	380	540	200
Media Volume (ft <sup>3</sup> )	45	45	60	120	120	150
Exchange Capacity @ 10#/ft <sup>3</sup> Salt (Kgr)	N/A	N/A	1,500	N/A	N/A	3,750
Operating Pressure (psi)—Min./Max.	20/100			20/100		
Pressure Drop (psig)	5-15			5-15		
Operating Temp. (°F), Max.	105			105		
Service Connections—Sch. 80 PVC Inlet/Outlet/Waste (inches)	4/4/4			6/6/6 or 6/6/4		
Weight (lbs.)— Shipping Operating	2,700 9,100	2,700 12,500	2,700 10,200	7,700 24,600	7,700 32,200	7,700 27,500
Dimensions	54"W x 73"D x 97"H			92"W x 108"D x 128"H		
Electric Requirements	120 V/1ph/60 Hz—10 Amps					
Vessel Specifications Type Internal Lining Valves/Piping/Internals	Carbon Steel, ASME Code, 100 psi Epoxy/Polyurethane Butterfly Isolation & Solenoid Valves/ Sch. 80 PVC/SS 316 Bottom & PVC Top Distribution					
Air Requirements	10 SCFM (Instantaneous) @ 80 psig					
Control Panel	NEMA 4X, Remote I/O Solenoid Panel					
Gauges	In/Out Pressure					
Applications:	–Activated Carbon (ACF) –Multimedia (MMF)		–Sodium Cycle Cation (Softener) –Dealkalizers		–Fe and Mn Removal –TOC Reduction	

**PreFlex units are generally used for temporary needs including:**

- Capacity expansions
- Pilot plant water
- Interim usage until a permanent system is installed
- Process water quality changes
- Existing demineralization system environmental salt discharge problems
- Scheduled shutdowns
- Seasonal water
- Emergency water
- Feedwater quality changes

Siemens Water Technologies offers the widest range of technologies to solve all your water treatment needs, and our extensive infrastructure fully supports your system and service requirements. Our experts can review your specific site conditions and make recommendations about the system that is best suited for your plant. To discuss your requirements for PreFlex units, mobile trailers or other water treatment systems, please call 800-435-3223.

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